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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/003,682	11/02/2001	Gunter Hommel	WEM-05401	2591	
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MUIRHEAD AND SATURNELLI, LLC			KENNEDY,	KENNEDY, JOSHUA T	
200 FRIBERG PARKWAY, SUITE 1001 WESTBOROUGH, MA 01581		001	ART UNIT	PAPER NUMBER	
	•		3679		

DATE MAILED: 10/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
:	10/003,682	HOMMEL, GUNTER			
Office Action Summary	Examiner	Art Unit			
	Joshua T. Kennedy	3679	176		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence a	ddress		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this D (35 U.S.C. § 133).			
Status					
<ul> <li>1) Responsive to communication(s) filed on 28 Au</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowar closed in accordance with the practice under E</li> </ul>	action is non-final.  nce except for formal matters, pro		ne merits is		
Disposition of Claims					
4) ☐ Claim(s) 1-3,7-10,13-17,19-21,24-35 and 37-39 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3,7-10,13-17,19-21,24-35 and 37-39 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.  9 is/are rejected.	٦.			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the order action is objected to by the Example 2.	epted or b) objected to by the drawing(s) be held in abeyance. Serion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 (			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D  5) Notice of Informal F  6) Other:	ate			

#### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/28/2006 has been entered.

Claims 1-3, 7-10, 13-17, 19-21, 24-35, and 37-39 have been examined.

Claims 4-6, 11, 12, 18, 22, 23, and 36 have been cancelled.

### Claim Objections

Claims 24-26 and 28 are objected to because they are dependent upon cancelled claim 23. Appropriate correction is required.

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 7-10, 13-17, 19-21, 24-35, and 37-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knohl (US 5,244,325) in view of Wenger (US 3,812,756) and Acres (US 3,221,794).

As to Claim 1. Knohl shows and discloses a device that attaches a first component (21) to a second component (22), comprising:

a sleeve (36) positioned in the first component (21) and being axially fixed in the first component (21); and

a bolt (35) positioned in the sleeve (36), and having a threaded front end (45) that projects outwardly from the sleeve (36) for screwing into a mating thread (23) of the second component (22), and which is screwed into the sleeve (36) with a slight radial play and held supported against axial forces,

wherein the bolt (35) has a spring lock washer (55) therearound (see generally figures 2-6, 9 and 10; columns 1-4),

wherein a rear end of the sleeve includes a lead-in cone (60) and, at a rear end of the sleeve (36) in the direction of introduction of the bolt (35), the sleeve (36) includes

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a collar (49) that projects radially outward, and an end section (50) at a front end of the sleeve (36) having a reduced wall thickness that can be flanged outward (reduced wall thickness as a result of bend deductions inherent in the bent portion; see figures 5-6), and

wherein the sleeve (36) having a first interior section (60) in the direction of introduction of the bolt (35) and an adjoining second interior section (48); an inner diameter of the first interior section (60) substantially coinciding with an outer diameter of the bolt (35); an inner diameter of the second interior section (48) being expanded relative to the inner diameter of the first interior section (60), wherein said inner shoulder (at the bottom of section 60) of the sleeve (36) is formed by a transition from the first interior section (60) to the second interior section (48; see figure 6).

Knohl lacks disclosure that the bolt (35) has a recess in its axial section accommodated in the sleeve and a spring lock washer located in the recess, whereby as the bolt is axially introduced into the sleeve, the spring lock washer is pressed radially by this sleeve into the recess and engages radially behind an inner shoulder of the sleeve for axial support and wherein the recess of the bolt includes a rear deep section (21) and a flat section (22) for the spring lock washer that co-acts with said lead in cone during introduction of the bolt into the sleeve and co-acts with the inner shoulder of the sleeve during detachment and also that the bolt includes a first shank section and a second shank section that are separated by said recess, and wherein an axial length of said first shank section of the bolt corresponds to an axial length of the first interior section of the sleeve. The Examiner notes that the lines 10-12 of claim 1 recite product-

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by- process limitations. Importantly, the claim is not limited to the manipulations of the recited steps, only the structure implied by the steps. See MPEP 2113.

Wenger, however, teaches a device having a bolt (10) having a recess (20) and a spring lock washer (21) located in the recess (20), whereby as the bolt is axially introduced into a member (32), the spring lock washer is pressed radially by this member (32) into the recess and engages radially behind an inner shoulder of the member for axial support in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted (see figures 3a,3b, 10, 11,13-15,17 and 19-21, and especially figure 5; see also column 1 lines 13-22; column 2 lines 10-62; column 4 line 38 - column 5 line 47; column 6 line 65 - column 7 line 7; column 8 lines 48-67; column 9 lines 28-30; column 9 line 59 - column 10 line 24; column 11 lines 33-44).

Likewise, Acres teaches a device having a bolt (10) having a recess (20) and a spring lock washer (26) located in the recess (20), whereby as the bolt is axially introduced into a member (42), the spring lock washer (26) is pressed radially by this member (42) into the recess (20) and engages radially behind an inner shoulder (40) of the member (42) and wherein the recess of the bolt includes a rear deep section (21) and a flat section (22) for the spring lock washer that is capable of co-acting with said lead in cone during introduction of the bolt into the sleeve and co-acts with the inner shoulder (40) of the sleeve during detachment for axial support in order to "provide a captive fastener having a novel groove configuration for wholly or partially receiving a retaining ring" to easily and effectively secure together two components (see figures 1-

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5; columns 1-6, especially column 1 line 40 - column 2 line 32), and wherein the bolt includes a first shank section (14) and a second shank section (22) that are separated by said recess (20) and wherein an axial length of said first shank section of the bolt corresponds to an axial length of the first interior section of the sleeve (Col 4, Lines 45-51).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Knoll with a bolt having a recess including a rear deep section and a flat section and a spring lock washer located in the recess, whereby as the bolt is axially introduced into a member, the spring lock washer is pressed radially by this member into the recess and engages radially behind an inner shoulder of the member for axial support in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted as taught by both Wenger and Acres in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted and to provide a captive fastener having a novel groove configuration for wholly or partially receiving a retaining ring to easily and effectively secure together two components.

As to Claims 2, 3, and 10. Wenger further teaches a device (see figures 3a, 3b, 10, 11, 13-15,17 and 19-21, and especially figure 5) including a bolt (10) which has recess (20) including a rear deep section (b) in a direction of introduction of the bolt (10) and a front flat section (c) adjoining the rear deep section (b); a radial depth of the rear deep

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section corresponding to a radial material thickness of a spring lock washer (21), and a radial depth of the flat section (c) corresponding to approximately half of the radial material thickness of the spring lock washer (21). Also the recess (20) including a stop shoulder a formed on the rear end in the direction of introduction of the bolt (10) and a support shoulder (see figure 5) formed on a front end (T), the stop shoulder (a) and the support shoulder each being located in a plane perpendicular to the axis of the bolt (10). It would have been obvious to one of ordinary skill in the art to provide the device of Knohl with a recess as taught by Wenger in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted (see also column 1 lines 13-22., column 2 lines 10-62; column 4 line 38 - column 5 line 47; column 6 line 65 - column 7 line 7; column 8 lines 48-67; column 9 lines 28-30; column 9 line 59 - column 10 line 24; column 11 lines 33-44).

Similarly, Acres teaches a device including a bolt (10) which has recess (20) including a radial depth of the rear deep section (21) corresponding to a radial material thickness of a spring lock washer (26), and a radial depth of the flat section (22) corresponding to approximately half of the radial material thickness of the spring lock washer (26). In additionthe recess (20) includes a stop shoulder (13) formed on a rear end in the direction of introduction of the bolt (10) and a support shoulder (24) formed on a front end, the stop shoulder (23) and the support shoulder (24) each being located in a plane perpendicular to the axis of the bolt (see figure 1). It would have been obvious to one of ordinary skill in the art to provide the device of Knohl with a recess as

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taught by Wenger in order to "provide a captive fastener having a novel groove configuration for wholly or partially receiving a retaining ring" to easily and effectively secure together two components (see figures 1-5; columns 1-6, especially column 1 line 40 - column 2 line 32).

As to Claim 13. Knohl specifically shows that the member into which the bolt is inserted may be a sleeve (36), but does not disclose the sleeve having front and rear shank sections. Wenger teaches the bolt (10) having a rear first shank section (S) in the direction of introduction that includes an outer diameter coinciding with the inner diameter of a first section of the member (32) into which it is inserted, and a front second shank section (T) that is separated from the first shank section (S) by the recess (20) having an outer diameter that is reduced relative to the outer diameter of the first shank section (S). It would have been obvious to one of ordinary skill in the art to provide the device of Knohl with a sleeve as taught by Wenger to aid in assembly of the attachment device, specifically the insertion of the ring (21).

As to Claims 9 and 16. Knohl further shows and discloses that the spring lock washer (55) includes an axial slot, an outer diameter of the spring lock washer (D6) in an unstressed state being equal to an inner diameter of a second section (D4) of the member into which the bolt (40) is inserted, and a material thickness of the spring lock washer (Fig 8) and a width of the slot being dimensioned in such a way that the spring

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lock washer is capable of being compressed to an outer diameter which is smaller than an inner diameter of a first section (60) of the member into which the bolt is inserted.

As to Claim 17. Knohl shows and discloses an attachment device, comprising a substantially cylindrical sleeve (36) having a hollow interior portion with a first interior section (49), an adjacent second interior section (48), and an inner shoulder (60); an elongated bolt (35) that fits in the sleeve (36) an elastic member (55) disposed on the bolt (35; see generally figures 2-6, 9 and 10; columns 1-4).

wherein a rear end of the sleeve includes a lead-in cone (60) and, at a rear end of the sleeve (36) in the direction of introduction of the bolt (35), the sleeve (36) includes a collar (49) that projects radially outward, and an end section (50) at a front end of the sleeve (36) having a reduced wall thickness that can be flanged outward (reduced wall thickness as a result of bend deductions inherent in the bent portion; see figures 5-6).

Knohl lacks disclosure of a recess formed on a portion of the bolt; and the elastic member disposed in the recess, wherein the elastic member radially compresses inwardly in response to the bolt being disposed in the first interior section and wherein the elastic member radially decompresses outwardly to enable the elastic member to engage the inner shoulder in response to the bolt being disposed in the second interior section and wherein the recess of the bolt includes a rear deep section (21) and a flat section (22) for the spring lock washer that co-acts with said lead in cone during introduction of the bolt into the sleeve and co-acts with the inner shoulder of the sleeve during detachment and also that the bolt includes a first shank section and a second

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shank section that are separated by said recess, and wherein an axial length of said first shank section of the bolt corresponds to an axial length of the first interior section of the sleeve..

Wenger, however, teaches a device having a bolt (10) having a recess (20) formed on a portion thereof; an elastic member (21) disposed in the recess (20), wherein the elastic member (21) radially compresses inwardly in response to the bolt (10) being disposed in the first interior section (32a) and wherein the elastic member (21) radially decompresses outwardly to enable the elastic member (21) to engage a shoulder in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted (see figures 3a,3b, 10,11,13-15,17 and 19-21, and especially figure 5; see also column 1 lines 13-22; column 2 lines 10-62; column 4 line 38 - column 5 line 47; column 6 line 65 - column 7 line 7; column 8 lines 48-67; column 9 lines 28-30; column 9 line 59 - column 10 line 24; column 11 lines 33-44).

Likewise, Acres teaches a device having a bolt (10) having a recess (20) formed in a portion thereof and an elastic member (26) disposed in the recess (20), wherein the elastic member (26) radially compresses inwardly in response to the bolt (10) being disposed in the first interior section (36) and wherein the elastic member (26) radially decompresses outwardly to enable the elastic member (26) to engage the inner shoulder (40) in response to the bolt (10) being disposed in the second interior section (38) and wherein the recess of the bolt includes a rear deep section (21) and a flat section (22) for the spring lock washer that co-acts with said lead in cone during

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introduction of the bolt into the sleeve and co-acts with the inner shoulder of the sleeve during detachment in order to "provide a captive fastener having a novel groove configuration for wholly or partially receiving a retaining ring" to easily and effectively secure together two components (see figures 1-5; columns 1-6, especially column 1 line 40 - column 2 line 32), and wherein the bolt includes a first shank section (14) and a second shank section (22) that are separated by said recess (20) and wherein an axial length of said first shank section of the bolt corresponds to an axial length of the first interior section of the sleeve (Col 4, Lines 45-51).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Knoll with a bolt having a recess including a rear deep section and a flat section and a spring lock washer located in the recess, whereby as the bolt is axially introduced into a member, the spring lock washer is pressed radially by this member into the recess and engages radially behind an inner shoulder of the member for axial support in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted as taught by both Wenger and Acres in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted and to provide a captive fastener having a novel groove configuration for wholly or partially receiving a retaining ring to easily and effectively secure together two components.

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As to Claim 19. Knohl further shows the collar (49) conformingly contacting a first component (21; see figures 2 and 3).

As to Claim 20. Knohl further shows a portion (49) of the sleeve (36) securely engaging a portion of a first component (21; see figures 2 and 3).

As to Claim 21. Knohl further shows the portion (49) of the sleeve (36) is constructed and arranged to expand outward in a radial direction to engage the first component (21).

As to Claim 24. Knohl further shows the sleeve (36) further includes a third portion (50) having a third interior diameter greater than the second portion (48), the third portion being adjacent to the second portion (see figures 5, 6, 9, 10).

As to Claim 25. Knohl further shows the third portion (50) extends into at least a portion of the first component (21; see figures 2 and 3).

As to Claim 26. Knohl further shows and discloses the third portion (50) is constructed and arranged to expand radially outward to securely attach the sleeve (36) to the first component (21; see figures 2 and 3).

As to Claim 27. Knohl discloses the bolt (10) includes a stop shoulder (57) and wherein the inner shoulder (60) cooperates with the stop shoulder (57) to apply approximately

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equal and oppositely directed forces on the elastic member to retain the bolt at a predetermined position (see figure 5).

As to Claim 28. Knohl discloses the bolt having a stop should but does not disclose the a rear deep section being formed adjacent to the stop shoulder and a conically expanding section that tapers outwardly from the rear deep section.

Wenger further teaches a recess (20) including a rear deep section (b) formed adjacent to a stop shoulder (a) and a conically expanding section (c) that tapers outwardly from the rear deep section (b) to provide a positive lock for the ring against the edge of the sleeve instead of expanding the ring to drive it out of the recess (10; see figures 3a,3b,10, 11,13-15,17 and 19-21; Col 5, Lines 42-47). It would have been obvious to one of ordinary skill in the art to modify the recess of Knohl to have a conically expanding section as taught by Wenger to provide a positive lock for the ring against the edge of the sleeve instead of expanding the ring to drive it out of the recess.

As to Claim 29. Knohl further shows the bolt (35) further includes an engagement head (42) formed on an end thereof.

As to Claims 30 and 31. Knohl further shows the bolt (35) including a threaded engagement member (45) formed at all end thereof that releasably engages a first component (21) coupled to a second component (22) by the bolt (35; see figures 2 and 3).

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As to Claim 32. Knohl further shows the elastic member (55) being a spring steel split ring (see column 3 line 61 - column 4 line 7).

As to Claim 35. Knohl shows and discloses an attachment device, comprising an elongated bolt (35); means for accepting the elongated bolt (36); an elastic member (55) disposed on the bolt; means (42,45) for retaining the elastic member (55) formed on the bolt; means (60) for engaging the elastic member (55),

wherein a rear end of the means for accepting the elongated bolt (36) includes a lead-in cone (60) and, at a rear end of the means for accepting the elongated bolt (36) in the direction of introduction of the bolt (35), the means for accepting the elongated bolt (36) includes a collar (49) that projects radially outward, and an end section (50) at a front end of the means for accepting the elongated bolt (36) having a reduced wall thickness that can be flanged outward (reduced wall thickness as a result of bend deductions inherent in the bent portion; see figures 5-6).

Knohl lacks explicit disclosure of the elastic member (55) radially compressing inwardly in response to the bolt being disposed in a first interior section of the means (36) for accepting the bolt (35), wherein the elastic member radially decompresses outwardly to enable the elastic member to engage the inner shoulder in response to the bolt being disposed in a second interior section of the means 36 for accepting the bolt 35, and wherein the recess of the bolt includes a rear deep section (21) and a flat section (22) for the spring lock washer that co-acts with said lead in cone during introduction of the bolt into the means for accepting the elongated bolt and co-acts with

the inner shoulder of the means for accepting the elongated bolt during detachment and also that the bolt includes a first shank section and a second shank section that are separated by said recess, and wherein an axial length of said first shank section of the bolt corresponds to an axial length of the first interior section of the sleeve.

Wenger, however, teaches a device having a bolt 10 having a recess 20 formed on a portion thereof; an elastic member 21 disposed in the recess 20, wherein the elastic member 21 radially compresses inwardly in response to the bolt 10 being disposed in the first interior section 32a and wherein the elastic member 21 radially decompresses outwardly to enable the elastic member 21 to engage a shoulder in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted (see figures 3a, 3b, 10, 11, 13-15, 17 and 19-21, and especially figure 5); see also column 1 lines 13-22; column 2 lines 10-62; column 4 line 38 - column 5 line 47; column 6 line 65 - column 7 line 7; column 8 lines 48-67; column 9 lines 28-30; column 9 line 59 - column 10 line 24; column 11 lines 33-44).

Likewise, Acres teaches a device having a bolt (10) having a recess (20) formed in a portion thereof and an elastic member (26) disposed in the recess (20), wherein the elastic member (26) radially compresses inwardly in response to the bolt (10) being disposed in the first interior section (36) and wherein the elastic member (26) radially decompresses outwardly to enable the elastic member (26) to engage the inner shoulder (40) in response to the bolt (10) being disposed in the second interior section (38), and wherein the recess of the bolt includes a rear deep section (21) and a flat

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section (22) for the spring lock washer that co-acts with said lead in cone during introduction of the bolt into the means for accepting the elongated bolt and co-acts with the inner shoulder of the means for accepting the elongated bolt during detachment in order to "provide a captive fastener having a novel groove configuration for wholly or partially receiving a retaining ring" to easily and effectively secure together two components (see figures 1-5; columns 1-6, especially column 1 line 40 - column 2 line 32), and wherein the bolt includes a first shank section (14) and a second shank section (22) that are separated by said recess (20) and wherein an axial length of said first shank section of the bolt corresponds to an axial length of the first interior section of the sleeve (Col 4, Lines 45-51).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Knoll with a bolt having a recess including a rear deep section and a flat section and a spring lock washer located in the recess, whereby as the bolt is axially introduced into a member, the spring lock washer is pressed radially by this member into the recess and engages radially behind an inner shoulder of the member for axial support in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted as taught by both Wenger and Acres in order to allow a bolt with a locking means thereon to pass into a workpiece, such locking means being automatically operative once the bolt is fully inserted and to provide a captive fastener having a novel groove configuration for wholly or partially receiving a retaining ring to easily and effectively secure together two components.

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As to Claim 37. Knohl further shows the means (36) for accepting the bolt (35) further including means (49 or 50) for being securely engaged to a portion of a first component (21).

As to Claim 38. Knohl further shows the bolt (35) including means (45) for releasably engaging a second component (22; see figures 2-3).

As to Claims 7, 14, 33, 39. Knohl further includes the means (36) for accepting the bolt (35) being a deep drawn part. The Examiner notes that the method of forming the device is not germane to the issue of patentability of the device itself.

As to Claims 8, 15, 34. Knohl further shows the sleeve (36), the bolt (35) and the spring lock washer (55) being made of steel.

## Response to Arguments

Applicant's arguments filed 8/28/2006 have been fully considered but they are not persuasive.

As to Claims 1, 17, and 35, Applicant argues:

"As detailed above, Applicant has clarified the respective positions and sizes of first and second sections of the sleeve in relation to first and second shank sections of the bolt with the recess therebetween. Applicant respectfully submits that Knohl does not teach

or fairly suggest the above-noted features as recited by Applicant. Further, Applicant submits that Wenger and Acres fail to overcome the above-noted deficiencies of Knohl with respect to Applicant's presently-claimed invention." (Page 18, Lines 1-6)

Examiner respectfully disagrees as to Claims 1, 17, and 35. As advanced above, Acres teaches that in certain applications it "is preferred that the counter bore 38 be relatively short in length so that the fastener will at all times extend above the first member 34" (Col 4, Lines 45-51). Thus, the axial lengths of the first and second sections of the screw are merely seen to be an obvious design consideration within the art dependent upon the specific application the fastener is being used for.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua T. Kennedy whose telephone number is (571) 272-8297. The examiner can normally be reached on M-F: 7am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571) 272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JTK 10/10/2006

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